

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
210121.465APPLICATION NO.  
09/164,223

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Alexander Gaiger and Martin A. Cheever

FILING DATE

September 30, 1998

GROUP ART UNIT

1643

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
P31	AA	5,350,840	09/27/94	Call et al.	536	23.1	
	AB						
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AL	WO 91/07509	05/30/91	PCT		
	AM					
	AN					
	AO					
	AP					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

P31	AR	Rackley et al., "Expression of the Wilms' Tumor Suppressor Gene <i>WT1</i> during Mouse Embryogenesis," <i>Cell Growth &amp; Differentiation</i> 4: 1023-1031, 1993.
↓	AS	Menssen et al., "Presence of Wilms' tumor gene ( <i>wt1</i> ) transcripts and the WT1 nuclear protein in the majority of human acute leukemias," <i>Leukemia</i> 9: 1060-1067, 1995.
↓	AT	Larsson et al., "Subnuclear Localization of WT1 in Splicing or Transcription Factor Domains Is Regulated by Alternative Splicing," <i>Cell</i> 81: 391-401, 1995.

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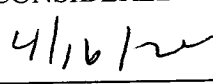
DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
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1735	AC	Menke et al., "Wilms' Tumor 1 splice variants have opposite effects on the tumorigenicity of adenovirus-transformed baby-rat kidney cells," <i>Oncogene</i> 12: 537-546, 1996.
	AD	Yamagami et al., "Growth Inhibition of Human Leukemic Cells by WT1 (Wilms Tumor Gene) Antisense Oligodeoxynucleotides: Implications for the Involvement of WT1 in Leukemogenesis," <i>Blood</i> 87(7): 2878-2884, 1996.
	AE	Mundlos et al., "Nuclear localization of the protein encoded by the Wilms' tumor gene <i>WT1</i> in embryonic and adult tissues," <i>Development</i> 119: 1329-1341, 1993.
	AF	Kudoh et al., "G <sub>1</sub> phase arrest induced by Wilms tumor protein WT1 is abrogated by cyclin/CDK complexes," <i>Proc. Natl. Acad. Sci. USA</i> 92: 4517-4521, 1995.
	AG	Ramani and Cowell, "The Expression Pattern Of Wilms' Tumour Gene ( <i>WT1</i> ) Product In Normal Tissues And Paediatric Renal Tumours," <i>Journal Of Pathology</i> 179: 162-168, 1996.
	AH	Menssen et al., "Wilms' Tumor Gene Expression in Human CD34 Hematopoietic Progenitors During Fetal Development and Early Clonogenic Growth," <i>Blood</i> 89(9): 3486-3487, 1997 (letter).
	AI	Call et al., "Isolation and Characterization of a Zinc Finger Polypeptide Gene at the Human Chromosome 11 Wilms' Tumor Locus," <i>Cell</i> 60: 509-520, 1990.
	AJ	Telerman et al., "Identification of the cellular protein encoded by the human Wilms' tumor ( <i>WT1</i> ) gene," <i>Oncogene</i> 7: 2545-2548, 1992.
	AK	Sharma et al., "Molecular Cloning of Rat Wilms' Tumor Complementary DNA and a Study of Messenger RNA Expression in the Urogenital System and the Brain," <i>Cancer Research</i> 52: 6407-6412, 1992.
	AL	Wang et al., "The Wilms' Tumor Gene Product, WT1, Represses Transcription of the Platelet-derived Growth Factor A-chain Gene," <i>The Journal Of Biological Chemistry</i> 267(31): 21999-22002, 1992.

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AB	AC	Tadokoro et al., "Genomic Organization of the Human WT1 Gene," <i>Jpn. J. Cancer Res.</i> 83: 1198-1203, 1992.
	AD	Haber et al., "A dominant mutation in the Wilms tumor gene <i>WT1</i> cooperates with the viral oncogene <i>E1A</i> in transformation of primary kidney cells," <i>Proc. Natl. Acad. Sci. USA</i> 89: 6010-6014, 1992.
	AE	Inoue et al., " <i>WT1</i> as a New Prognostic Factor and a New Marker for the Detection of Minimal Residual Disease in Acute Leukemia," <i>Blood</i> 84: 3071-3079, 1994.
	AF	Tsurutani et al., "cDNA cloning and developmental expression of the porcine homologue of <i>WT1</i> ," <i>Gene</i> 211(2): 215-220, 1998.
	AG	Huang et al., "Tissue, Developmental, and Tumor-Specific Expression of Divergent Transcripts in Wilms Tumor," <i>Science</i> 250: 991-994, 1990.
	AH	Phelan et al., "Wilms' Tumor Gene, <i>WT1</i> , mRNA Is Down-regulated during Induction of Erythroid and Megakaryocytic Differentiation of K562 Cells," <i>Cell Growth &amp; Differentiation</i> 5: 677-686, 1994.
	AI	Sekiya et al., "Downregulation of Wilms' Tumor Gene ( <i>wt1</i> ) During Myelomonocytic Differentiation in HL60 Cells," <i>Blood</i> 83(7): 1876-1882, 1994.
	AJ	Brieger et al., "The Expression of the Wilms' Tumor Gene in Acute Myelocytic Leukemias as Possible Marker for Leukemic Blast Cells," <i>Leukemia</i> 8(12): 2138-2143, 1994.
	AK	Pritchard-Jones et al., "The Wilms tumour ( <i>WT1</i> ) gene is mutated in a secondary leukaemia in a WAGR patient," <i>Human Molecular Genetics</i> 3(9): 1633-1637, 1994.
✓	AL	Tadokoro et al., "Intragenic homozygous deletion of the <i>WT1</i> gene in Wilms' tumor," <i>Oncogene</i> 7: 1215-1221, 1992.

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02/08/99

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PS	AC	Armstrong et al., "The expression of the Wilms' tumour gene, WT1, in the developing mammalian embryo," <i>Mechanisms of Development</i> 40: 85-97, 1992.
	AD	Wang et al., "The Wilms' Tumor Gene Product WT1 Activates or Suppresses Transcription through Separate Functional Domains," <i>The Journal Of Biological Chemistry</i> 268(13): 9172-9175, 1993.
	AE	Wang et al., "A second transcriptionally active DNA-binding site for the Wilms tumor gene product, WT1," <i>Proc. Natl. Acad. Sci. USA</i> 90: 8896-8900, 1993.
	AF	Rauscher, "The WT1 Wilms tumor gene product: a developmentally regulated transcription factor in the kidney that functions as a tumor suppressor," <i>FASEB J.</i> 7: 896-903, 1993.
	AG	Harrington et al., "Inhibition of Colony-stimulating Factor-1 Promoter Activity by the Product of the Wilms' Tumor Locus," <i>The Journal Of Biological Chemistry</i> 268(28): 21271-21275, 1993.
	AH	Tadokoro et al., "PCR Detection of 9 Polymorphisms in the WT1 Gene," <i>Human Molecular Genetics</i> 2(12): 2205-2206, 1993.
	AI	Tadokoro et al., "TaqI RFLPs at the Wilms' tumor gene (WT1)," <i>Nucleic Acids Research</i> 19(9): 2514, 1991.
	AJ	Kreidberg et al., "WT-1 Is Required for Early Kidney Development," <i>Cell</i> 74: 679-691, 1993.
	AK	Miyagi et al., "Expression of the Candidate Wilms' Tumor Gene, WT1, in Human Leukemia Cells," <i>Leukemia</i> 7(7): 970-977, 1993.
	AL	Brenner et al., "RNA polymerase chain reaction detects different levels of four alternatively spliced WT1 transcripts in Wilms' tumors," <i>Oncogene</i> 7: 1431-1433, 1992.

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AC	Rupprecht et al., "The Wilms' Tumor Suppressor Gene WT1 Is Negatively Autoregulated," <i>The Journal Of Biological Chemistry</i> 269(8): 6198-6206, 1994.
AD	Wang et al., "WT1, the Wilms' tumor suppressor gene product, represses transcription through an interactive nuclear protein," <i>Oncogene</i> 10(6): 1243-1247, 1995.
AE	Wu et al., "GATA-1 Transactivates the WT1 Hematopoietic Specific Enhancer," <i>The Journal Of Biological Chemistry</i> 270(11): 5944-5949, 1995.
AF	Brieger et al., "The Wilms' tumor gene is frequently expressed in acute myeloblastic leukemias and may provide a marker for residual blast cells detectable by PCR," <i>Annals of Oncology</i> 6: 811-816, 1995.
AG	Hamilton et al., "High affinity binding sites for the Wilms' tumour suppressor protein WT1," <i>Nucleic Acids Research</i> 23(2): 277-284, 1995.
AH	Reddy et al., "WT1-mediated Transcriptional Activation Is Inhibited by Dominant Negative Mutant Proteins," <i>The Journal Of Biological Chemistry</i> 270(18): 10878-10884, 1995.
AI	Nichols et al., "WT1 Induces Expression of Insulin-like Growth Factor 2 in Wilms' Tumor Cells," <i>Cancer Research</i> 55: 4540-4543, 1995.
AJ	Luo et al., "The tumor suppressor gene WT1 inhibits <i>ras</i> -mediated transformation," <i>Oncogene</i> 11: 743-750, 1995.
AK	Goodyer et al., "Repression of the retinoic acid receptor- $\alpha$ gene by the Wilms' tumor suppressor gene product, wt1," <i>Oncogene</i> 10: 1125-1129, 1995.
AL	King-Underwood et al., "Mutations in the Wilms' Tumor Gene WT1 in Leukemias," <i>Blood</i> 91: 2961-2968, 1998.

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VB	AC	Patmasiriwat et al., "Expression pattern of WT1 and GATA-1 in AML with chromosome 16q22 abnormalities," <i>Leukemia</i> 10: 1127-1133, 1996.
	AD	Inoue et al., "Long-Term Follow-Up of Minimal Residual Disease in Leukemia Patients by Monitoring WT1 (Wilms Tumor Gene) Expression Levels," <i>Blood</i> 88: 2267-2278, 1996.
	AE	Frazier et al., "Expression of the Tumor Suppressor Gene WT1 in Both Human and Mouse Bone Marrow," <i>Blood</i> 86: 4704-4706, 1995 (letter).
	AF	Algar et al., "A WT1 antisense oligonucleotide inhibits proliferation and induces apoptosis in myeloid leukaemia cell lines," <i>Oncogene</i> 12: 1005-1014, 1996.
	AG	Ye et al., "Regulation of WT1 by phosphorylation: inhibition of DNA binding, alteration of transcriptional activity and cellular translocation," <i>The EMBO Journal</i> 15(20): 5606-5615, 1996.
	AH	Adachi et al., "Midkine as a novel target gene for the Wilms' tumor suppressor gene (WT1)," <i>Oncogene</i> 13: 2197-2203, 1996.
	AI	Kudoh et al., "Constitutive expression of the Wilms tumor suppressor gene WT1 in F9 embryonal carcinoma cells induces apoptotic cell death in response to retinoic acid," <i>Oncogene</i> 13: 1431-1439, 1996.
	AJ	Svedberg et al., "Constitutive expression of the Wilms' tumor gene (WT1) in the leukemic cell line U937 blocks parts of the differentiation program," <i>Oncogene</i> 15: 1-8, 1997.
	AK	Bergmann et al., "High Levels of Wilms' Tumor Gene (wt1) mRNA in Acute Myeloid Leukemias Are Associated With a Worse Long-Term Outcome," <i>Blood</i> 90(3): 1217-1225, 1997.
	AL	Inoue et al., "Aberrant Overexpression of the Wilms Tumor Gene (WT1) in Human Leukemia," <i>Blood</i> 89(4): 1405-1412, 1997.

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MB	AC	Menssen et al., "Detection By Monoclonal Antibodies Of The Wilms' Tumor (WT1) Nuclear Protein In Patients With Acute Leukemia," <i>Int. J. Cancer</i> 70: 518-523, 1997.
	AD	Schmid et al., "Prognostic significance of WT1 gene expression at diagnosis in adult <i>de novo</i> acute myeloid leukemia," <i>Leukemia</i> 11: 639-643, 1997.
	AE	Drummond et al., "Repression of the Insulin-Like Growth Factor Gene by the Wilms Tumor Suppressor WT1," <i>Science</i> 257: 674-677, 1992.
	AF	Harrington et al., "Inhibition of Colony-stimulating Factor-1 Promoter Activity by the Product of the Wilms' Tumor Locus," <i>The Journal Of Biological Chemistry</i> 268(28): 21271-21275, 1993.
	AG	Werner et al., "Inhibition of Cellular Proliferation by the Wilms' Tumor Suppressor WT1 Is Associated with Suppression of Insulin-Like Growth Factor I Receptor Gene Expression," <i>Molecular and Cellular Biology</i> 15: 3516-3522, 1995.
	AH	Haber et al., "An Internal Deletion within an 11p13 Zinc Finger Gene Contributes to the Development of Wilms' Tumor," <i>Cell</i> 61: 1257-1269, 1990.
	AI	Haber et al., "Alternative splicing and genomic structure of the Wilms tumor gene <i>WT1</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 88: 9618-9622, 1991.
	AJ	Madden et al., "Transcriptional Repression Mediated by the WT1 Wilms Tumor Gene Product," <i>Science</i> 253: 1550-1552, 1991.
	AK	Rauscher et al., "Binding of the Wilms' Tumor Locus Zinc Finger Protein to the EGR-1 Consensus Sequence," <i>Science</i> 250: 1259-1262, 1990.
	AL	Nakagama et al., "Sequence and Structural Requirements for High-Affinity DNA Binding by the WT1 Gene Product," <i>Molecular and Cellular Biology</i> 15(3): 1489-1498, 1995.

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BS	AC	Pritchard-Jones et al., "The candidate Wilms' tumour gene is involved in genitourinary development," <i>Nature</i> 346: 194-197, 1990.
	AD	Morris et al., "Characterization of the zinc finger protein encoded by the WT1 Wilms' tumor locus," <i>Oncogene</i> 6: 2339-2348, 1991.
	AE	Pelletier et al., "Germline Mutations in the Wilms' Tumor Suppressor Gene Are Associated with Abnormal Urogenital Development in Denys-Drash Syndrome," <i>Cell</i> 67: 437-447, 1991.
	AF	Buckler et al., "Isolation, Characterization, and Expression of the Murine Wilms' Tumor Gene (WT1) During Kidney Development," <i>Molecular and Cellular Biology</i> 11: 1707-1712, 1991.
	AG	Pelletier et al., "Expression of the Wilms' tumor gene WT1 in the murine urogenital system," <i>Genes &amp; Development</i> 5: 1345-1356, 1991.
	AH	Miwa et al., "Expression of the Wilms' Tumor Gene (WT1) in Human Leukemias," <i>Leukemia</i> 6(5): 405-409, 1992.
	AI	Ogawa et al., "Successful donor leukocyte transfusion at molecular relapse for a patient with acute myeloid leukemia who was treated with allogeneic bone marrow transplantation: importance of the monitoring of minimal residual disease by WT1 assay," <i>Bone Marrow Transplantation</i> 21: 525-527, 1998.
	AJ	Inoue et al., "Wilms' Tumor Gene (WT1) Competes With Differentiation-Inducing Signal in Hematopoietic Progenitor Cells," <i>Blood</i> 91(8): 2969-2976, 1998.
	AK	King-Underwood and Pritchard-Jones, "Wilms' Tumor (WT1) Gene Mutations Occur Mainly in Acute Myeloid Leukemia and May Confer Drug Resistance," <i>Blood</i> 91(8): 2961-2968, 1998.
J	AL	Maurer et al., "The Wilms' tumor gene is expressed in a subset of CD34 progenitors and downregulated early in the course of differentiation in vitro," <i>Experimental Hematology</i> 25: 945-950, 1997.

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AC	Charles et al., "Expression of the Wilms' tumour gene WT1 in the developing human and in paediatric renal tumours: an immunohistochemical study," <i>J. Clin. Pathol.: Mol. Pathol.</i> 50: 138-144, 1997.
AD	Silberstein et al., "Altered expression of the WT1 Wilms tumor suppressor gene in human breast cancer," <i>Proc. Natl. Acad. Sci. USA</i> 94: 8132-8137, 1997.
AE	Charles et al., "Immunohistochemical detection of the Wilms' tumour gene WT1 in desmoplastic small round cell tumour," <i>Histopathology</i> 30: 312-314, 1997.
AF	Carapeti et al., "Dominant-negative mutations of the Wilms' tumour predisposing gene (WT1) are infrequent in CML blast crisis and de novo acute leukaemia," <i>Eur. J. Haematol.</i> 58: 346-349, 1997.
AG	Murata et al., "The Wilms tumor suppressor gene WT1 induces G1 arrest and apoptosis in myeloblastic leukemia M1 cells," <i>FEBS Letters</i> 409: 41-45, 1997.
AH	Bergmann et al., "Wilms Tumor Gene Expression in Acute Myeloid Leukemias," <i>Leukemia and Lymphoma</i> 25: 435-443, 1997.
AI	Osaka et al., "WT1 Contributes To Leukemogenesis: Expression Patterns In 7,12-Dimethylbenz[a]Anthracene (DMBA)-Induced Leukemia," <i>International Journal of Cancer</i> 72: 696-699, 1997.
AJ	Parker et al., "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," <i>Journal of Immunology</i> 152: 163-175, 1994.
AK	Feller and de la Cruz, "Tsites (Version 1.1) A computer program to determine T cell epitopes using four predictive algorithms," <i>Nature</i> 349: 720-721, 1991.
AL	Pogue et al., "Amino-terminal alteration of the HLA-A*0201-restricted human immunodeficiency virus pol peptide increases complex stability and <i>in vitro</i> immunogenicity," <i>Proc. Natl. Acad. Sci. USA</i> 92: 8166-8170, 1995.

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